U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 1 OF 18

1/18

• 0

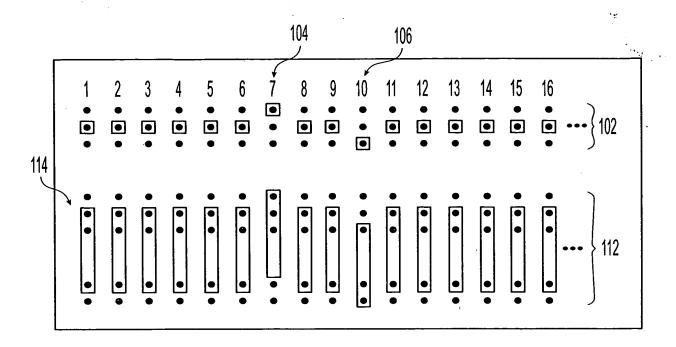


Fig. 1 (Prior Art) RECEIVED

SEP 1 0 2001

TC 1700

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Alty. Dkt. #9046-034) (202) 496-4400 PAGE 2 OF 18

2/18

<u>200</u>

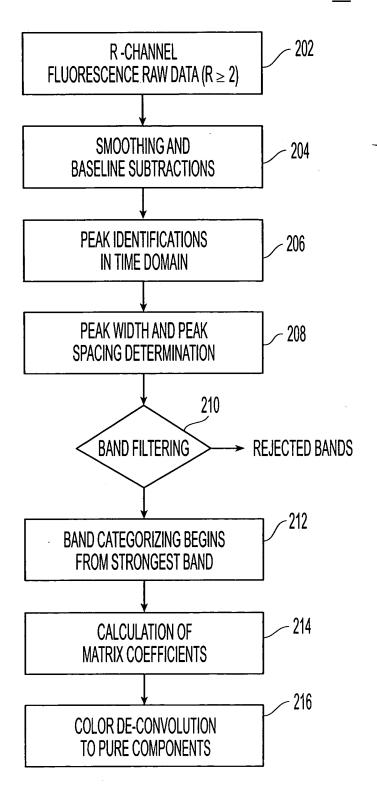
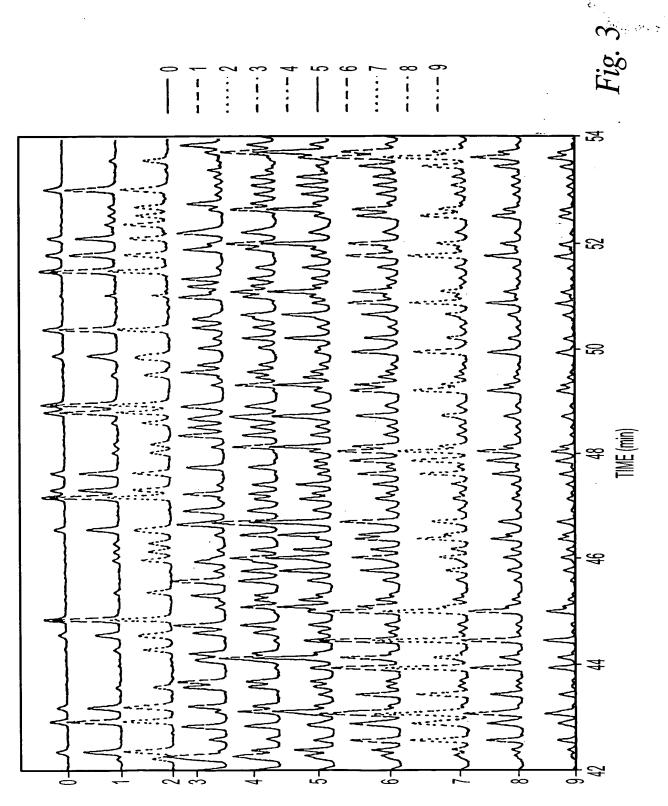


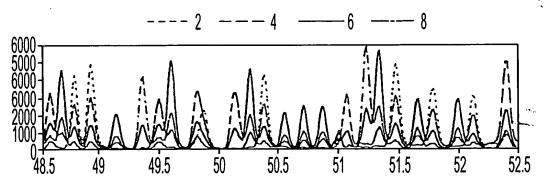
Fig. 2

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 3 OF 18



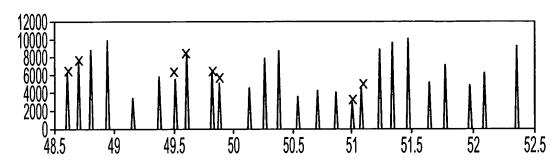
RELATIVE FLUORESCENCE INTENSITY IN EACH CHANNEL

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 4 OF 18



CLOSE-UP OF THE ELECTROPHEROGRAMS OF ONLY FOUR SELECTED WAVELENGTH CHANNEL FOR SIMPLICITY.

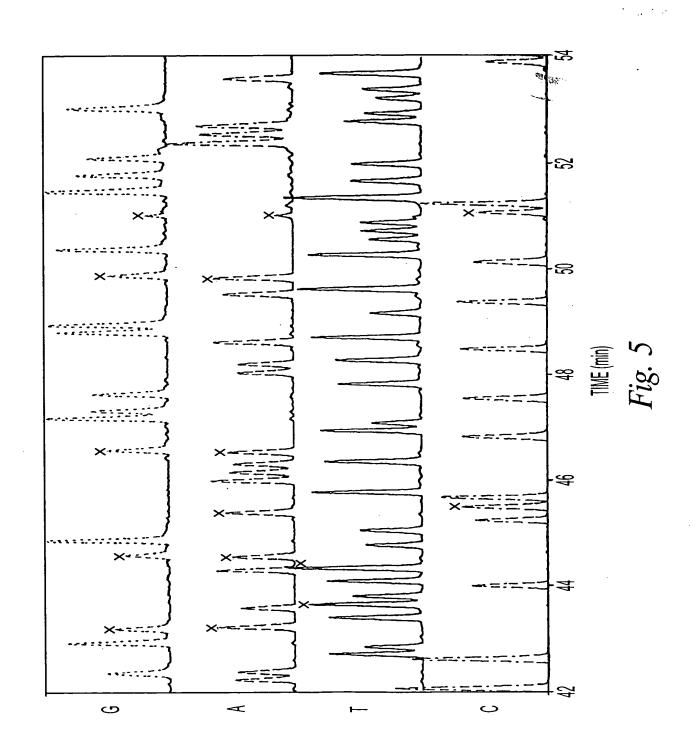
Fig. 4a



REJECTED PEAK LABELLED WITH X BASED ON THE PEAK SPACING CALCULATIONS AFTER THESE PEAKS IN A LOCAL SECTION HAVE BEEN PROCESSED.

Fig. 4b

RELATIVE FLUORESCENCE INTENSITY FOR EACH NUCLEOTIDE



5/18

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 5 OF 18

.

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Alty. Dkt. #9046-034) (202) 496-4400 PAGE 6 OF 18

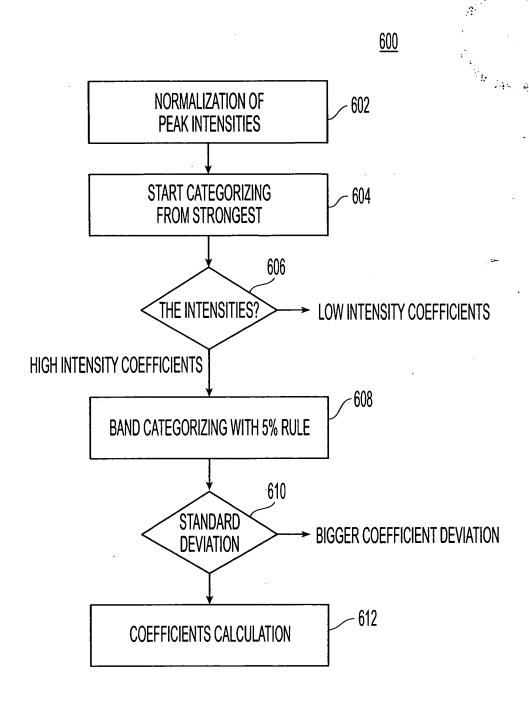


Fig. 6

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 7 OF 18

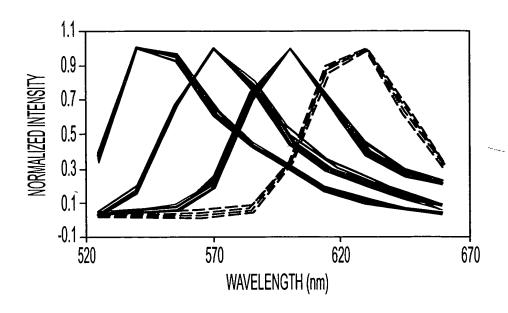


Fig. 7a

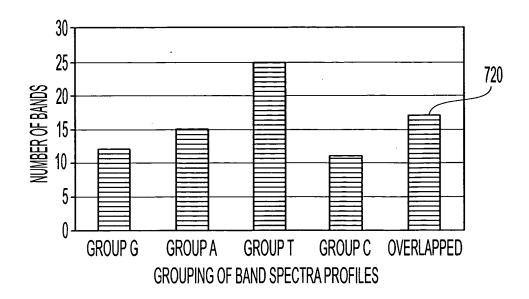
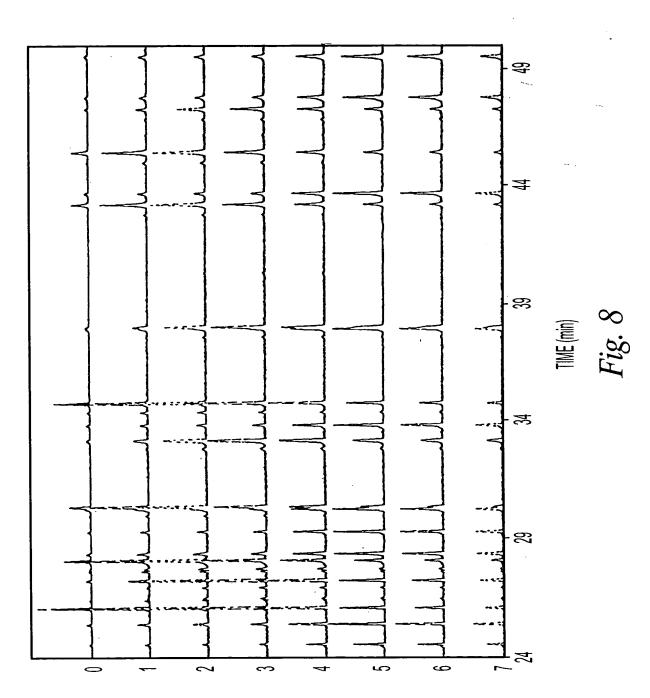


Fig. 7b

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 8 OF 18



RELATIVE FLUORESCENCE INTENSITY

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Auy. Dkt. #9046-034) (202) 496-4400 PAGE 9 OF 18

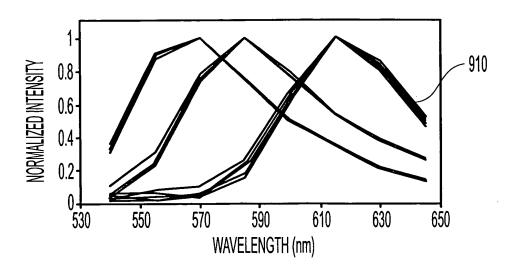


Fig. 9a

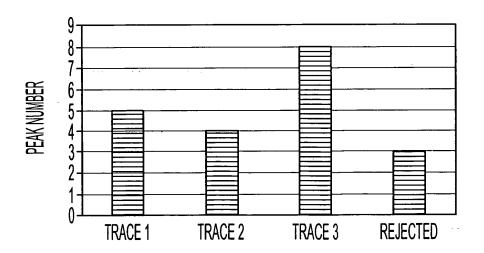
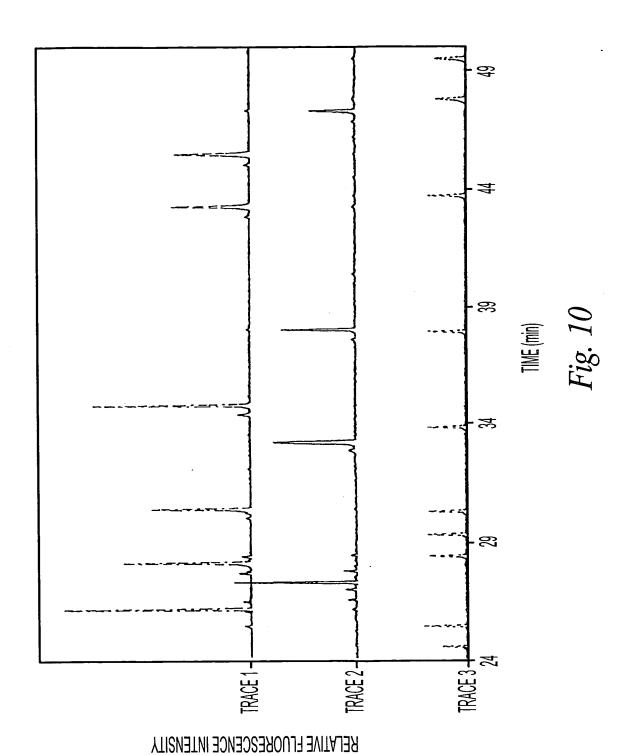


Fig. 9b

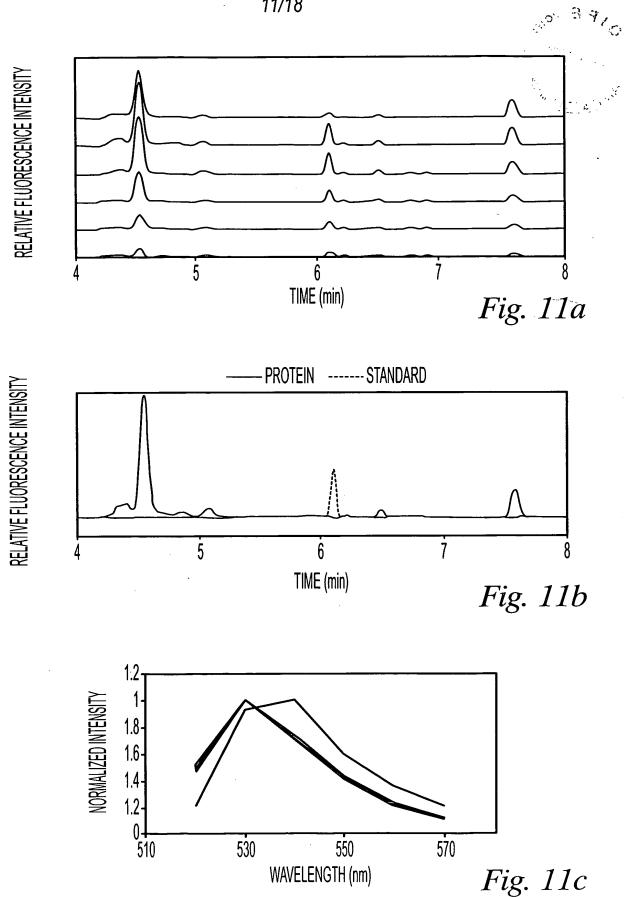
U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 10 OF 18











U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 12 OF 18

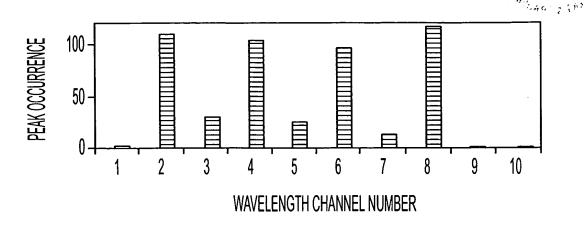


Fig. 12

U.S. PATENT APPLICATION NO 09/676.526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Ac.y. Dkt. #9046-034) (202) 496-4400 PAGE 13 OF 18

13/18

С	Α	G	T
.408	.037	.021	.016
1	.205	.034	.021
.887	.722	.063	.023
.566	1	.244	.027
.394	.721	.754	.067
.265	.428	1	.359
.152	.287	.691	.925
.091	.202	.403	1
.059	.120	.274	.604
.040	.069	.202	.316

BigDye TERMINATOR SET

Fig. 13a

С	Α	G	Ţ
.448	.079	.026	.021
1	.379	.058	.027
.944	.847	.223	.035
.685	. 1	.670	.067
.451	.806	1	.274
.287	.557	.844	.765
.173	.373	.528	1
.108	.249	.357	.784
.116	.162	.248	.480
.050	.099	.163	.300

RHODAMINE TERMINATOR DYE SET

Fig. 13b

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 14 OF 18

14/18

С	Α	G	Ţ
.877	.333	.291	.379
1	.789	.358	.439
.840	1	.515	.404
.617	.771	.849	.386
.418	.488	1	.541
.279	.312	.802	.862
.205	.218	.557	1
.151	.150	.399	.834
.102	.095	.284	.563
.068	.061	.191	.365

ET PRIMER DYE SET

Fig. 13c

С	Α	G	Ţ
.317	.101	.084	.059
1	.932	.742	.199
.516	• 1	1	.607
.211	.426	.625	1
.107	.184	.263	.814
.048	.074	.122	.423
.025	.034	.049	.234
.137	.017	.024	.106
.000	.000	.000	.000
.000	.000	.000	.000

BODIPYPRIMER DYE SET

Fig. 13d

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 15 OF 18

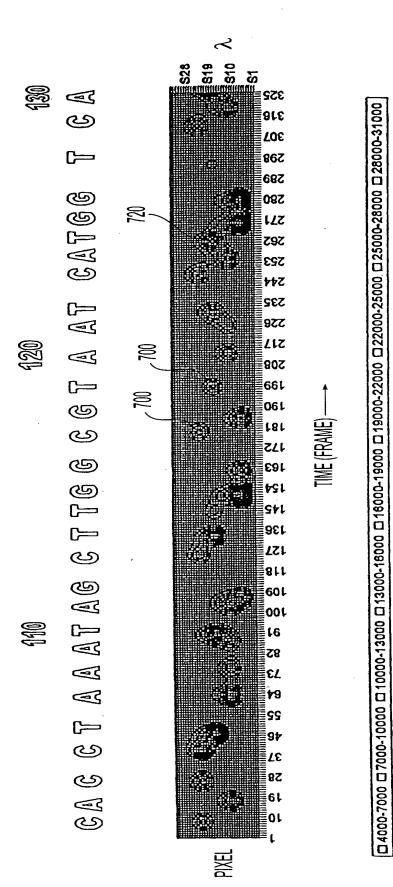


Fig. 14

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LL.P (Atty. Dkt. #9046-034) (202) 496-4400 PAGE 16 OF 18

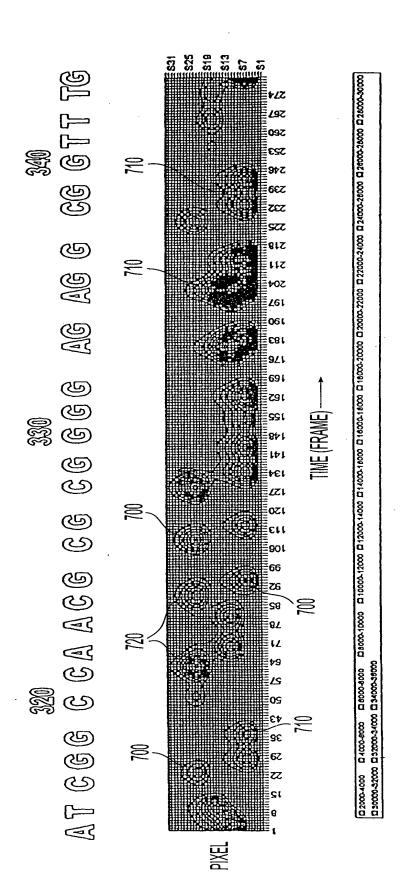


Fig. 15

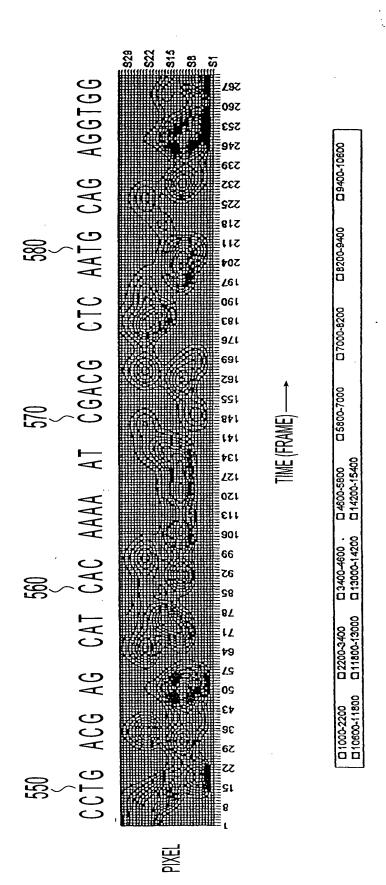


Fig. 16

U.S. PATENT APPLICATION NO. 09/676,526 to Changsheng LIU et al. FILED: October 2, 2000 PENNIE & EDMONDS LLP (Atty. Dkt. #9046-034 (202) 496-4400 PAGE 18 OF 18

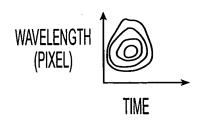


Fig. 17a

